

C L A I M S

1. An electronic apparatus having a communication device, comprising:

5 a memory which stores identification information for identifying an external device having been previously connected to the communication device;

an operation switch;

10 means for establishing connection with an external device designated by identification information stored in said memory in response to the operation of said operation switch; and

15 means for receiving data transmitted from the external device with which the connection is established by the establishing means via the communication device.

2. An electronic apparatus according to the claim 1, further comprising:

20 means for reproducing the data received by the receiving means; and

25 means for determining whether or not a data form of a data which may be transmitted by an external device connected to the communication device coincides with a data form of a data which may be reproduced by the reproducing means,

wherein the memory stores identification information for identifying the external device connected to the communication device under a condition where the data forms coincide with each other.

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3. An electronic apparatus according to claim 2, wherein said determining means determines whether or not a type of an encoding scheme applied to data to be transmitted, which type is transmitted from said 10 external device connected to the communication device, is a type of an encoding scheme which may be decoding by the reproducing means.

4. An electronic apparatus according to claim 2, 15 wherein said determining means determines whether or not a type of an encoding scheme applied to data to be transmitted and a value of a sampling frequency used in the encoding, which type and values are transmitted from said external device connected to the 20 communication device, are a type of an encoding scheme and a value of a sampling frequency which may be decoded by said reproducing means.

5. An electronic apparatus according to claim 2, 25 wherein the data transmitted from the external device is audio data, and said reproducing means includes an

output unit which outputs sounds corresponding to the audio data.

6. An electronic apparatus according to claim 1,
5 wherein the identification information for identifying the external device includes address information allocated to the external device.

7. An electronic apparatus according to claim 1,
10 further comprising means for setting the communication device in either one of a first communication mode for receiving data transmitted from the external device or a second communication mode for bidirectionally transmitting and receiving data between the external
15 device and the communication device.

8. An electronic apparatus according to claim 7,
wherein said memory stores identification information
for identifying the external device wirelessly
20 connected to the communication device as first
identification information when the communication
device is in the first communication mode, and stores
identification information for identifying the external
device wirelessly connected to the communication device
25 as second identification information when the
communication device is in the second communication

mode.

9. An electronic apparatus according to claim 8,
wherein said establishing means includes means for
5 transmitting a connection request to the external
device designated by the identification information
stored as the first identification information in
response to an operation of said operation switch when
the communication device is in the first communication
10 mode, and for transmitting a connection request to the
external device designated by the identification
information stored as the second identification
information in response to an operation of the
operation switch when the communication device is in
15 the second communication mode.

10. A communication control method for controlling
communication made by an electronic apparatus,
comprising steps of:

20 storing identification information for identifying
an external device which has been previously
established a connection with the electronic apparatus;
inputting an instruction;
establishing connection with the external device
25 designated by the identification information stored in
the storage step in response to the instruction; and

receiving data transmitted from the external device over the established connection.

11. A communication control method according to
5 claim 10, further comprising determining whether or not a data form of data which may be transmitted by the external device connected to the electronic apparatus coincides with a data form of data which may be reproduced by the electronic apparatus,

10 wherein the storing step stores identification information for identifying the external device connected to the electronic apparatus only where it is determined that the data forms coincides with each other.

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12. A communication control method according to
claim 11, wherein the determining step determines whether or not a type of an encoding scheme applied to data to be transmitted, which type is transmitted from 20 the external device to the electronic apparatus, is a type of an encoding scheme which may be decoded by the electronic apparatus.

13. A communication control method according to
25 claim 11, wherein the determining step determines whether or not a type of an encoding scheme applied to

data to be transmitted and a value of a sampling frequency used in the encoding, which type and sampling are transmitted from the external device to the electronic apparatus, are a type of an encoding scheme and a value of a sampling frequency which may be decoded by the electronic apparatus.

14. A communication control method according to claim 10, further comprising setting the electronic apparatus in either one of a first communication mode for receiving data transmitted from the external device or a second communication mode for bidirectionally transmitting and receiving data between the electronic apparatus and the external device.

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15. A communication control method according to claim 14, wherein the storing step stores identification information for identifying the external device connected to the electronic apparatus as first identification information when the electronic apparatus is in the first communication mode, and stores identification information for identifying the external device connected to the electronic apparatus as second identification information when the electronic apparatus is in the second communication mode.

16. A communication control method according to
claim 15, wherein the establishing step transmits a
connection request to the external device designated by
5 the identification information stored as the first
identification information in response to the
instruction input when the electronic apparatus is in
the first communication mode, and transmits a
connection request to the external device designated by
10 identification information stored as the second
identification information in response to the
instruction when the electronic apparatus is in the
second communication mode.

15 17. An electronic apparatus having a
communication device, comprising:
 a memory which stores identification information
for identifying an external device having been
previously connected to the communication device;
20 an operation switch;
 means for establishing connection with an external
device designated by identification information stored
in said memory in response to the operation of said
operation switch; and
25 means for reproducing data transmitted from the
external device with which the connection is

established by the establishing means via the communication device.

18. An electronic apparatus according to claim 17,
5 wherein the identification information for identifying the external device includes address information allocated to the external device.

19. An electronic apparatus according to claim 17,
10 further comprising means for setting the communication device in either one of a first communication mode for receiving data transmitted from the external device or a second communication mode for bidirectionally transmitting and receiving data between the external
15 device and the communication device.

20. An electronic apparatus according to claim 17,
wherein the data transmitted from the external device
is audio data, and said reproducing means includes an
20 output unit which outputs sounds corresponding to the audio data.